



THE UNITED STATES PATENT AND TRADEMARK OFFICE

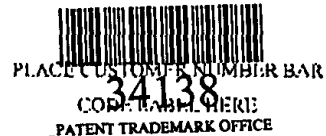
Assistant Commissioner for Patents
Washington, DC 20231

Sir:

**POWER OF ATTORNEY WITH REVOCATION AND
CHANGE OF CORRESPONDENCE ADDRESS**

I hereby revoke all previous powers of attorney or authorizations of agent given in the applications identified in Table A attached hereto, and appoint

☒ Practitioners at Customer Number: 34138



as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please change the Correspondence Address for all applications identified in Table

A to:

☒ Practitioners at Customer Number: 34138

I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. (A statement under 37 CFR 3.73(b) is enclosed.)

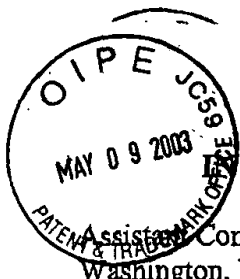
Respectfully submitted,
ISIS PHARMACEUTICALS, INC.

Date: April 24, 2003

By: _____

Name: B. Lynne Parshall
Title: Executive Vice President

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THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents
Washington, DC 20231

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Sir:

STATEMENT UNDER 37 CFR 3.73(b)

Applicant, **ISIS Pharmaceuticals, Inc.**, a corporation, states that it is:

☒ the assignee of the entire right, title, and interest of the applications identified in Table A attached hereto.

The extent (by, percentage) of its ownership interest is 100% in the patent applications identified in Table A by virtue of:

☒ a copy of the pertinent assignment from the inventor(s) of the patent applications identified in Table A is enclosed herewith.

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Respectfully submitted,
ISIS PHARMACEUTICALS, INC.

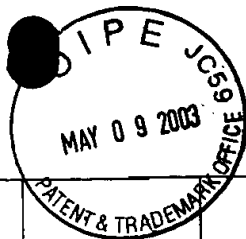
Date: April 24, 2003

By: _____

Name: B. Lynne Parshall
Title: Executive Vice President

TABLE A

SERIAL NO. PATENT NO.	FILING DATE ISSUE DATE	INVENTORS	EXAMINER	ART UNIT	TITLE
07/954,185	09/29/1992	Hanecak, Anderson, Bennett, Chiang, Brown-Driver, Ecker, Vickers, Wyatt	D. Guzo	1636	Oligonucleotides Having A Conserved G4 Core Sequence
08/403,888 5,952,490	06/12/1995 09/14/1999	Hanecak, Anderson, Bennett, Chiang, Brown-Driver, Ecker, Vickers, Wyatt, Imbach	D. Guzo	1636	Oligonucleotides Having A Conserved G4 Core Sequence
09/299,058	04/23/1999	Hanecak, Anderson, Bennett, Chiang, Brown-Driver, Ecker, Vickers, Wyatt, Imbach	D. Guzo	1636	Oligonucleotides Having A Conserved G4 Core Sequence
10/038,335	01/02/2002	Hanecak, Anderson, Bennett, Chiang, Brown-Driver, Ecker, Vickers, Wyatt			Modulation Of Telomere Length By Oligonucleotides Having A G-Core Sequence



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15-4976

JWC (sc)

OCTOBER 24, 2002

PTAS

Under Secretary of Commerce For Intellectual Property and
Director of the United States Patent and Trademark Office
Washington, DC 20231
www.uspto.gov

WOODCOCK WASHBURN LLP
PAUL K. LEGAARD
ONE LIBERTY PLACE
46TH FLOOR
PHILADELPHIA, PA 19103-7301

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Woodcock Washburn Kurtz
Mackiewicz & Norris LLP

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/06/2002

REEL/FRAME: 013192/0423
NUMBER OF PAGES: 12

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
HANECAK, RONNIE C.

DOC DATE: 07/23/2002

ASSIGNOR:
ANDERSON, KEVIN P.

DOC DATE: 07/30/2002

ASSIGNOR:
BENNETT, C. FRANK

DOC DATE: 07/23/2002

ASSIGNOR:
CHIANG, MING-YI

DOC DATE: 07/18/2002

ASSIGNOR:
BROWN-DRIVER, VICKIE L.

DOC DATE: 07/16/2002

ASSIGNOR:
ECKER, DAVID J.

DOC DATE: 07/22/2002

ASSIGNOR:
VICKERS, TIMOTHY A.

DOC DATE: 07/18/2002

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ASSIGNOR:

WYATT, JACQUELINE R.

DOC DATE: 07/16/2002

ASSIGNEE:

ISIS PHARMACEUTICALS, INC.
2292 FARADAY AVENUE
CARLSBAD, CALIFORNIA 92008

SERIAL NUMBER: 10038335

FILING DATE: 01/02/2002

PATENT NUMBER:

ISSUE DATE:

TARA WASHINGTON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

A S S I G N M E N T

WHEREAS, we, **Ronnie C. Hanecak of San Clemente, California; Kevin P. Anderson of Carlsbad, California; C. Frank Bennett of Carlsbad, California; Ming-Yi Chiang of San Diego, California; Vickie L. Brown-Driver of Solana Beach, California; David J. Ecker of Encinitas, California; Timothy A. Vickers of Oceanside, California; and, Jacqueline R. Wyatt of Encinitas, California**, have invented a certain invention entitled **Modulation of Telomere Length by Oligonucleotides Having a G-Core Sequence**, for which I/we have made an application for Letters Patent of the United States, said application having been filed **January 2, 2002** and assigned Application No. **10/038,335** and

WHEREAS, **ISIS Pharmaceuticals, Inc.** hereinafter referred to as the assignee, of **2292 Faraday Avenue, Carlsbad California**, a corporation of Delaware, is desirous of acquiring the entire right, title and interest in and to the said inventions or improvements and in and to the said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in any and all countries:

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00) to each of us in hand paid by said assignee, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said assignors, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over to said assignee, the entire right, title and interest in and to said inventions or improvements and said application and any and all continuations, divisions and renewals of and substitutes for said application, and in, to and under any and all Letters Patent which may be granted on or as a result thereof in the United States and any and all other countries, and any reissue or reissues or extension or extensions of said Letters Patent, and assign to and authorize said assignee, to file in our names applications for Letters Patent in all countries, the same to be held and enjoyed by said assignee, its successors, assigns, nominees or legal representatives, to the full end of the term or terms for which said Letters Patent respectively may be

granted, reissued or extended, as fully and entirely as the same would have been held and enjoyed by us had this assignment, sale and transfer not been made.

AND we hereby covenant that we have full right to convey the entire interest herein assigned, and that we have not executed and will not execute any agreement in conflict herewith, and we further covenant and agree that we will each time request is made and without undue delay, execute and deliver all such papers as may be necessary or desirable to perfect the title to said inventions or improvements, said application and said Letters Patent to said assignee, its successors, assigns, nominees, or legal representatives, and each of us agrees to communicate to said assignee or to its nominee all known facts respecting said inventions or improvements, said application and said Letters Patent, to testify in any legal proceedings, to sign all lawful papers to execute all disclaimers and divisional, continuing, reissue and foreign applications, to make all rightful oaths, and generally to do everything possible to aid said assignee, its successors, assigns, nominees and legal representatives to obtain and enforce for its or their own benefit proper patent protection for said inventions or improvements in any and all countries.

AND we hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any country or countries foreign to the United States whose duty it is to issue patents on applications as aforesaid, to issue to said assignee, as assignee of the entire right, title and interest, any and all Letters Patent for said inventions or improvements, including any and all Letters Patent of the United States which may be issued and granted on or as a result of the application aforesaid, in accordance with the terms of this assignment.

AND this Assignment may be executed in multiple counterparts, each of which shall be deemed to be an original of this Assignment. Additionally, we hereby authorize our attorneys to collect the signature pages of each executed counterpart and to attach those signature pages to a single copy of this instrument, which single copy and attached signature pages together shall constitute an original of this Assignment.

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: July 23, 2002

Ronnie C. Hanecak
Ronnie C. Hanecak

State of California)
County of San Diego)

ss.

On this 23rd day of July, 2002, before me, the undersigned, a Notary Public for the state, personally appeared **Ronnie C. Hanecak**, ~~personally known to me~~/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that ~~he~~/she executed the same in ~~his~~/her authorized capacity, and that by ~~his~~/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.



Lane B.D. Schwartz
Signature of Notary

Dated: July 30, 2002Kevin P. Anderson
Kevin P. AndersonState of California)
County of San Diego) ss.

On this 30th day of July, 2002, before me, the undersigned, a Notary Public for the state, personally appeared **Kevin P. Anderson**, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

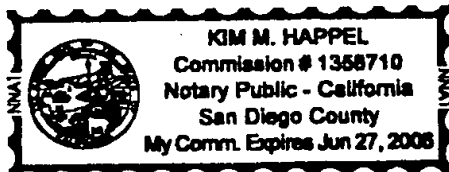
Marisa Lohouse
Signature of Notary

Dated: 7-23, 2002C. Frank Bennett
C. Frank BennettState of California)
County of San Diego)

ss.

On this 23rd day of July, 2002, before me, the undersigned, a Notary Public for the state, personally appeared **C. Frank Bennett**, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/~~she~~ executed the same in his/~~her~~ authorized capacity, and that by his/~~her~~ signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Kim M. Happel
Signature of Notary

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

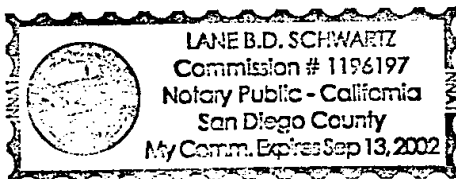
Dated: Jul 18, 2002

Ming-Yi Chiang
Ming-Yi Chiang

State of California
County of San Diego

ss.

On this 18th day of July, 2002, before me, the undersigned, a Notary Public for the state, personally appeared Ming-Yi Chiang, personally known to me/~~proved to me on the basis of satisfactory evidence to be the person~~ who subscribed the foregoing Assignment and acknowledged to me that ~~he/she~~ executed the same in ~~his/her~~ authorized capacity, and that by ~~his/her~~ signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.



WITNESS my hand and official seal.

Lane B.D. Schwartz
Signature of Notary

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: July 16, 2002

Vickie L. Brown-Driver
Vickie L. Brown-Driver

State of California)
County of San Diego) ss.

On this 16th day of July, 2002, before me, the undersigned, a Notary Public for the state, personally appeared Vickie L. Brown-Driver, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Shawna K. Boles
Signature of Notary



DOCKET NO.: ISIS-4976

PATENT

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: July 22, 2002

David J. Ecker
David J. Ecker

State of CALIFORNIA)
) ss.
County of SAN DIEGO)

On this 22nd day of July, 2002, before me, the undersigned, a Notary Public for the state, personally appeared **David J. Ecker**, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.



Carol A. Collins
Signature of Notary

IN WITNESS WHEREOF, we have hereunto set our hands and seals.

Dated: 7/16, 2002

Jacqueline R. Wyatt
Jacqueline R. Wyatt

State of California)
County of San Diego) ss.

On this 16th day of July, 2002, before me, the undersigned, a Notary Public for the state, personally appeared **Jacqueline R. Wyatt**, personally known to me/proved to me on the basis of satisfactory evidence to be the person who subscribed the foregoing Assignment and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the Assignment the person, or the entity on behalf of which the person acted, executed the Assignment.

WITNESS my hand and official seal.

Pamela Grooms
Signature of Notary

